

# SEQUENCE LISTING

<110> Rosen et al.

<120> 36 Human Secreted Proteins

<130> PZ025P1C1D1

<150> 09/716,129

<151> 2000-11-17

<150> PCT/US99/03939

<151> 1999-02-24

<150> 60/076,053

<151> 1998-02-26

<150> 60/076,057

<151> 1998-02-26

<150> 60/076,052

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<151> 1998-02-26

<160> 186

<170> PatentIn version 2

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<212> DNA

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attaccataa	tcatgctatg	taaatataag	actactggct	ttgtgaggga	atgtttgtgc	1980
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gggcggccgc			2080

<210> 18  
 <211> 602  
 <212> DNA  
 <213> Homo sapiens

<400> 18						
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tttcggggac	accaggatgt	gtacccggtt	gtagtaggag	ctgaaatcca	tgctgagctg	480
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<210> 19  
 <211> 629  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (533)  
 <223> n equals a,t,g, or c

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gctgctycca	tgttgcttgc	tgcaaaggat	atgattttgt	ycttttttat	ggctgtgtag	180
tattccatgg	tgtatatgga	ccacattttc	tttatccaat	ccaccatata	tgggcaccta	240
ggttgattcc	atgtctttgc	tattgtgaat	agcactgtga	tgaacataga	agtggattaa	300
atttcttttt	cttgacagtc	tcctaattta	tgcttgtaca	tatatttttc	tctcatgcct	360
tgaggttttt	aaaagtcctc	tcctctttct	catggcaata	cttttactaa	agtacatttc	420
ctgggaatcc	ttagggttcc	ccttattttg	aataggctga	atattttcat	atgtttggtg	480
atttttatct	tttaatcctt	taatagggtt	gaaagtcctc	cttgatatgg	gtngctcaga	540
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aaaaaaaaa	aaaaaaaaa	aaactcgag				629

<210> 20

<211> 2067

<212> DNA

<213> Homo sapiens

<400> 20

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tccaataaag	aaatccagag	gcaggcagta	gctggctttg	attcagcctc	tgactgtcac	180
tgtcagggcc	ccaggcccca	tgagcctttc	gtctttcctg	catgttggct	tatcttctca	240
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gcacgagggg	gggcccgtac	ccaatcg				2067

<210> 21

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (963)  
 <223> n equals a,t,g, or c

<400> 21  
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 cgccccgagg cggtagcttc agagcctcca gtgcctgtgg ggctggaggt gaagtggggg 180  
 gccctgggtgc tgctgctggt gctcaccctc ctctgcagcc tgggtgcccatt ctgtgtgctg 240  
 cgccggccag gagctaacca tgaaggctca gcttcccgcc agaaagccct gagcctagta 300  
 agctgttttcg cggggggcgt ctttttgccc acttgctctc tggacctgct gcctgactac 360  
 ctggctgcca tagatgaggc cctggcagcc ttgcacgtga cgctccagtt cccactgcaa 420  
 gagttcatcc tggccatggg cttcttcctg gtcctggtga tggagcagat cacactggct 480  
 tacaaggagc agtcaggggc gtcacctctg gaggaacaa gggctctgct gggaacagtg 540  
 aatgggtgggc cgcagcattg gcatgatggg ccagggggtcc cacaggcgag tggagcccca 600  
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 tctgtgctag agggcatggc agctggcacc ttttytata tcacctttt ggaatcctg 960  
 ctntttcatc ccaaatttaa ggggggtttca agaagaa 997

<210> 22  
 <211> 1383  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (556)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (562)  
 <223> n equals a,t,g, or c

<400> 22  
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 attttatgac attttcccca ttgtcttcta ccttctgggtg gtcttccaga ttctactgtg 180  
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 aatattaaag ctcatgccct ccagtttggg catattttga tgaatatatt gtgaaaattc 300  
 cttgcctttt ccaacttcta gaagctgcct ctacactttg attctttggg ctctttcttt 360  
 ttttctccac cttcaaagcc agcagcatag cacttccaaa tttctctctg cttctgccct 420  
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gcc						1383

<210> 23  
 <211> 1513  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1502)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1512)  
 <223> n equals a,t,g, or c

<400> 23						
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gaacattttc	aatcaagtta	ccatgcactc	ccaagatgta	cgacatcatc	gcttctgtct	780
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<210> 24  
 <211> 1044  
 <212> DNA  
 <213> Homo sapiens

<400> 24						
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cccagtgctc	aggaccagcc	atcttgcccc	tcacagcgcc	ctgcccagtt	ggtgtaatat	420
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<210> 25

<211> 2575

<212> DNA

<213> Homo sapiens

<400> 25

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<210> 26  
 <211> 718  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (21)  
 <223> n equals a,t,g, or c

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<210> 27  
 <211> 654  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (613)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (623)  
 <223> n equals a,t,g, or c

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tcccagggcg	gagaacaccg	aacacccagt	gaagggtgag	ggatcagcac	ggcgccgccca	240
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<210> 28  
 <211> 1445  
 <212> DNA  
 <213> Homo sapiens

<400> 28  
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 gctctgtgtg gatttgggcc cctcatcttc atttattata ttatcaaac tgagagggta 360  
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 agctccttct cttgaagatt gccaccagtg cccctccac cttggggctg tcctctgcct 480  
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 gttaagtatt agcagaatac ataaatcatt tagtacgttt cctgtttgcg tgaattctat 660  
 ttatgttggg cacattttgc aaattaatgt taaaacctat taatactcta cgggacagag 720  
 aagcacaagc tgcctgtgtg gggaatagct gccgtcagca gcctgggtat atgattggag 780  
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 gcagcccca ggcttgtgtt gccactggag cccactcgtc tagctttgtc tttactggc 900  
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 ttcttactgt gtcttttagt cctcggatta ctgtttcttc gcacactccc tgggctttag 1140  
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 aaaaa 1445

<210> 29  
 <211> 2020  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
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 ccgccgcagt gtacccagga cccagccatg gtgcattaca tctaccagcg ctttcgagtc 180  
 ttggagcaag ggctggaaaa atgtacccaa gcaacgaggg catacattca agaattccaa 240  
 gagttctcaa aaaatatatc tgtcatgctg ggaagatgtc agacctacac aagtgagtac 300  
 aagagtgcag tgggtaactt ggcactgaga gttgaacgtg cccaacggga gattgactac 360  
 atacaatacc ttcgagaggg tgacgagtgc atcgaatcag aggacaagac actggcagaa 420  
 atgttgctcc aagaagctga agaagagaaa aagatccgga ctctgctgaa tgcaagctgt 480  
 gacaacatgc tgatgggcat aaagtctttg aaaatagtga agaagatgat ggacacacat 540  
 ggctcttggg tgaaagatgc tgtctataac tctccaaagg tgtacttatt aattggatcc 600  
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 ccagctcccc ggaagcaaat cctaacactt tcctggcagg gaacaggcca agtgatctac 720  
 aaaggttttc tattttttca taaccaagca acttctaatt agataatcaa atataacctg 780  
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 taccagcact cccctcaac ttacattgac ctggctgtgg atgagcatgg gctctgggcc 900  
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tcctggctct	caaggatgac	cacattctga	tacagcctac	ttcaagcctt	ttgttttact	1560
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caaactccag	agctcaagag	atcctcctgc	ctcagcctcc	taagtacctg	ggattacagg	1860
catgtgccac	cacacctggc	ttaaaatact	atttcttatt	gagggtttaac	ctctatttcc	1920
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ttgaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			2020

<210> 30  
 <211> 1083  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
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ctccgggatt	ctgctcctgg	cggttttctc	aggctggtga	tgggcaagcc	gggtgtacca	180
agtccaggat	gcacatgagg	agcgtttgta	gcagtcactg	aatcacctca	tgactagcgg	240
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ggaggatcac	cagagcccag	gagggttgaga	ttgcagtgcg	ccgtgatcat	ggcagtgcac	1020
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gag						1083

<210> 31  
 <211> 1580  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1513)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1542)  
 <223> n equals a,t,g, or c

<400> 31						
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ggtgctgcga	gggcagaacc	tgggtgttgat	gggaaccatt	ttcagcatcc	tgctggtgac	180
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ttggaaccaa	aactttccta	cttggaatg	acctttggtc	tggacagtgt	gtaaatgcta	360
aatgaattag	aagaaaacat	gtactagaca	ttattttttc	ctaacactgt	agcgcaaata	420
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caagcacagc	actgatttta	acaacctgca	tttaatgtga	agtaaccgaa	gtaggatact	1320
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<210> 32

<211> 796

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (748)

<223> n equals a,t,g, or c

<400> 32

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ttcttagcct	cccacctcct	tgctgtggag	cagcttcatg	taccatgatg	catattcaga	180
tcattcttaa	tactcatatt	ttgatagaga	ggttttttag	ttttctttta	aaccaagtgt	240
attgagataa	actacttttg	taggatattg	aacttaggaa	taatggtagt	aaactagaca	300
gctttttttt	ttttattaca	ctttaagttc	tgggatattg	gttcagaaca	tgacagtttg	360
ttacataggt	atacacgtgc	catgggtggt	tgctgcaccc	atcaacctgt	catctgtatt	420
cgggtgtttct	cctaattcta	tcccwccctt	acccccctgc	ccccaaaaag	gccccagtgt	480
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aacatgaggt	gtttgggttt	ttcttcctgt	gttagtttgc	tgagaatgat	ggcttccagc	600
ttcatccatg	tccctkcaaa	ggacatgaac	tcagtccttt	tttatggctg	catagtattt	660
cgtgggtatat	aagtgccaca	ttttctttat	ycagtcctayc	atttgggttg	gttccaaatc	720
tttgctattg	tgaatagtgc	cgcaatanac	atacgtgtgc	atgtgtcttt	aaaaaaaaaa	780
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<210> 33

<211> 1256

<212> DNA

<213> Homo sapiens

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<400> 33
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ggagcagggtc ttaactctgg ccactgaaca gacctatgct gtggaggggtg agacacccat      180
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cccactggaa ggctcacagg caaggtgaga gaggacacag aaggtgccaa cactgtcgct      960
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ttacatagcc tctgtgagcc tcatcggtaa acagtggggg ttatgaaacc cacctcacag     1140
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<210> 34
<211> 1064
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1047)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1048)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1050)
<223> n equals a,t,g, or c

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<400> 34
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tggaaccccg aaggcaggag atgtgtgctc ccttgggatg tatggggaaa tcacacagag      180
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gattagggca ggcaataaca gtgttgacac cagggcaact gntttcycct gttatgggat      480
tatwcaacat ctgctttctg ctaagctcca tggaaggcac agaggaaaca cagcagagtc      540
catgccttag agactttgta cctgatgaat tgagtgggat caggacaatg ctatttaatg      600

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (733)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

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 <213> Homo sapiens

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 <212> DNA  
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 <223> n equals a,t,g, or c

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 <213> Homo sapiens

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<210> 39

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 39

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<211> 1276

<212> DNA

<213> Homo sapiens

<400> 40

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1016  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
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 <211> 2197  
 <212> DNA  
 <213> Homo sapiens

<400> 43						
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<210> 44  
 <211> 1999  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (965)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 gaccactggc ccttcccccg cctgtggtg acttcataaa ggttactagc ttctcccctg 180  
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 aaaaaaaaaa aaaaaaaaaa 1999

<210> 45  
 <211> 1519  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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cacatatattg	tcctctatag	ctctattatg	tttttgcctt	tctggggtag	tttgttgcat	240
atgtaacaac	tcagtgttcc	acattcaaca	atatattctt	ataattatta	cttttccact	300
ggtagtcatt	tagttcagtt	tttatgggtg	tattttataaa	tataatacat	gtatgttaaa	360
tttttctatg	ttgtaggcct	aacaatccat	tactacttat	tactttacac	aattgacttg	420
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taaaaaaaaa	aaaaaaaaa					1519

<210> 46

<211> 1189

<212> DNA

<213> Homo sapiens

<400> 46

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ggaaaaccac	acacttttccg	cctctcttgc	aaaatccatt	cctcatgctg	accctcctca	180
cgatggctgt	gtcagcccag	ccccctccct	tctccaggcc	cagataactc	ttccacaaac	240
aagatgagag	ccactcggga	aaagagccat	agtcaactgg	gagggcctac	atctggatgg	300
cggtggaaaa	acttgagggt	ttggggttca	aagtcagccc	atcccacctg	gcaaaatcct	360
cctgggaagga	ggaccttcaa	gagcgcatca	cctgaatgtc	atgaagaagt	atctctgaat	420
gtatccagga	gaggaactgc	ataaccaaag	gggtgaccag	ccctcagatg	tgcttattgg	480
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gggtaaataa	tttatgacca	ttcatctgtt	tttatgaatt	tttttatcta	gacaataatt	1020
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cgctgggtct	tctgactcgt	gcagtgtggt	tctgaaatgt	ttgtgggtta	aaaaaaaaag	1140
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<210> 47

<211> 2584

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1389)  
 <223> n equals a,t,g, or c

<400> 47

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cgtggtctcc	caggccgggg	gccccgaagg	caaagactac	tgcatacctct	acaacccgca	180
gtggggcccat	cttccgcacg	acctcagcaa	ggcatctttc	ctgcagctgc	gcaactggac	240
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gctggtggcg	cgggggaact	gcaccttcta	tgagaaagtg	aggctggccc	agggcagcgg	360
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catatgatga	gattggcatt	cccgtggccc	tgctcagcta	caaagacatg	ctggacatct	480
tcacgcgttt	cggccgcacg	gtgagggcgg	cgctgtatgc	gcctaaggag	ccggtgctgg	540
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ccgc						2584

<210> 48  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 48  
 Met Ile Lys His Ala Leu Ile Arg Pro Phe Ile Val Phe Ser Leu Leu  
 1 5 10 15

Leu Arg Leu Cys Ser Glu Asn Leu Phe Cys Pro Asn Thr Gln Phe Ile  
20 25 30

Val Leu Ser Cys Phe Gln Ser Val Val Lys Ser Leu Leu Ser Ile Leu  
35 40 45

Asn Leu Ser Tyr Cys Ile Phe  
50 55

<210> 49

<211> 40

<212> PRT

<213> Homo sapiens

<400> 49

Met Asn Ser Cys Leu Phe Leu Cys Ile Leu Ile Leu Glu Ser Ala Met  
1 5 10 15

Val Val Leu Met Lys Val His Phe Ile Val Ala Phe Glu Leu Thr Ala  
20 25 30

Lys Ala Ile Asn Gln Lys Gln Lys  
35 40

<210> 50

<211> 93

<212> PRT

<213> Homo sapiens

<400> 50

Met Ala Arg Lys Ser Phe Ala Leu Leu Met Phe Val Trp Gln Met Ser  
1 5 10 15

Leu Ser Leu Pro Ile Lys Gly Phe Ile Leu Arg Val Ala Asn Trp Leu  
20 25 30

Phe Lys Pro His Leu Asn Ser Val Cys Leu Gly Trp Gln Asn His Thr  
35 40 45

Arg Phe Cys Trp Ala Asn Leu Pro Gly Gly Val Leu Leu Glu Glu Ser  
50 55 60

Ala Thr Ala Glu Asp Thr Leu Ser Trp Pro Leu Ala Leu Gln Thr Ile  
65 70 75 80

Val Glu Glu Gly Val Trp Gly His Gln Pro Leu Pro Gly  
85 90

<210> 51

<211> 83

<212> PRT

<213> Homo sapiens

<400> 51

Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser  
1 5 10 15

Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser  
20 25 30

Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro  
35 40 45

Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro  
50 55 60

Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr  
65 70 75 80

His Ile Arg

<210> 52  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 52  
Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln  
1 5 10 15

Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu  
20 25 30

Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala  
35 40 45

Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly  
50 55 60

Leu  
65

<210> 53  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 53  
Met His Cys His Ser Ala Leu Gly Pro Met Ser Thr Pro Val Leu Pro  
1 5 10 15

Phe Ser Gly Ile Gly Leu Ala Phe Leu Cys Leu Cys Leu Ala Ala Ser  
20 25 30

Met Val Asp Leu Lys Cys Leu Gly Met Asn Ser Thr Leu Leu Gln Pro  
35 40 45

Ser Ile Lys Glu  
50

<210> 54  
<211> 540  
<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> MISC\_FEATURE

<222> (469)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 54

Met Ala Thr Ser Gly Ala Ala Ser Ala Xaa Leu Val Ile Gly Trp Cys  
1 5 10 15

Ile Phe Gly Leu Leu Leu Leu Ala Ile Leu Ala Phe Cys Trp Ile Tyr  
20 25 30

Val Arg Lys Tyr Gln Ser Arg Arg Glu Ser Glu Val Val Ser Thr Ile  
35 40 45

Thr Ala Ile Phe Ser Leu Ala Ile Ala Leu Ile Thr Ser Ala Leu Leu  
50 55 60

Pro Val Asp Ile Phe Leu Val Ser Tyr Met Lys Asn Gln Asn Gly Thr  
65 70 75 80

Phe Lys Asp Trp Ala Asn Ala Asn Val Ser Arg Gln Ile Glu Asp Thr  
85 90 95

Val Leu Tyr Gly Tyr Tyr Thr Leu Tyr Ser Val Ile Leu Phe Cys Val  
100 105 110

Phe Phe Trp Ile Pro Phe Val Tyr Phe Tyr Tyr Glu Glu Lys Asp Asp  
115 120 125

Asp Asp Thr Ser Lys Cys Thr Gln Ile Lys Thr Ala Leu Lys Tyr Thr  
130 135 140

Leu Gly Phe Val Val Ile Cys Ala Leu Leu Leu Leu Val Gly Ala Phe  
145 150 155 160

Val Pro Leu Asn Val Pro Asn Asn Lys Asn Ser Thr Glu Trp Glu Lys  
165 170 175

Val Lys Ser Leu Phe Glu Glu Leu Gly Ser Ser His Gly Leu Ala Ala  
180 185 190

Leu Ser Phe Ser Ile Ser Ser Leu Thr Leu Ile Gly Met Leu Ala Ala  
195 200 205

Ile Thr Tyr Thr Ala Tyr Gly Met Ser Ala Leu Pro Leu Asn Leu Ile  
210 215 220

Lys Gly Thr Arg Ser Ala Ala Tyr Glu Arg Leu Glu Asn Thr Glu Asp  
225 230 235 240

Ile Glu Glu Val Glu Gln His Ile Gln Thr Ile Lys Ser Lys Ser Lys  
245 250 255

Asp Gly Arg Pro Leu Pro Ala Arg Asp Lys Arg Ala Leu Lys Gln-Phe  
 260 265 270  
 Glu Glu Arg Leu Arg Thr Leu Lys Lys Arg Glu Arg His Leu Glu Phe  
 275 280 285  
 Ile Glu Asn Ser Trp Trp Thr Lys Phe Cys Gly Ala Leu Arg Pro Leu  
 290 295 300  
 Lys Ile Val Trp Gly Ile Phe Phe Ile Leu Val Ala Leu Leu Phe Val  
 305 310 315 320  
 Ile Ser Leu Phe Leu Ser Asn Leu Asp Lys Ala Leu His Ser Ala Gly  
 325 330 335  
 Ile Asp Ser Gly Phe Ile Ile Phe Gly Ala Asn Leu Ser Asn Pro Leu  
 340 345 350  
 Asn Met Leu Leu Pro Leu Leu Gln Thr Val Phe Pro Leu Asp Tyr Ile  
 355 360 365  
 Leu Ile Thr Ile Ile Ile Met Tyr Phe Ile Phe Thr Ser Met Ala Gly  
 370 375 380  
 Ile Arg Asn Ile Gly Ile Trp Phe Phe Trp Ile Arg Leu Tyr Lys Ile  
 385 390 395 400  
 Arg Arg Gly Arg Thr Arg Pro Gln Ala Leu Leu Phe Leu Cys Met Ile  
 405 410 415  
 Leu Leu Leu Ile Val Leu His Thr Ser Tyr Met Ile Tyr Ser Leu Ala  
 420 425 430  
 Pro Gln Tyr Val Met Tyr Gly Ser Gln Asn Tyr Leu Ile Glu Thr Asn  
 435 440 445  
 Ile Thr Ser Asp Asn His Lys Gly Asn Ser Thr Leu Ser Val Pro Lys  
 450 455 460  
 Arg Cys Asp Ala Xaa Ala Pro Glu Asp Gln Cys Thr Val Thr Arg Thr  
 465 470 475 480  
 Tyr Leu Phe Leu His Lys Phe Trp Phe Phe Ser Ala Ala Tyr Tyr Phe  
 485 490 495  
 Gly Asn Trp Ala Phe Leu Gly Val Phe Leu Ile Gly Leu Ile Val Ser  
 500 505 510  
 Cys Cys Lys Gly Lys Lys Ser Val Ile Glu Gly Val Asp Glu Asp Ser  
 515 520 525  
 Asp Ile Ser Asp Asp Glu Pro Ser Val Tyr Ser Ala  
 530 535 540

<210> 55  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 55  
 Met Phe Gln Val Arg Pro Gly Trp Gln Leu Leu Leu Val Met Phe Ser  
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 Ser Cys Ala Val Ser Asn Gln Leu Leu Val Trp Tyr Pro Ala Thr Ala  
           20                  25                  30  
 Leu Ala Asp Asn Lys Pro Val Ala Pro Asp Arg Arg Ile Ser Gly His  
           35                  40                  45  
 Val Gly Ile Ile Phe Ser Met Ser Tyr Leu Glu Ser Lys Gly Leu Leu  
   50                  55                  60  
 Ala Thr Xaa Ser Glu Asp Arg Ser Val Arg Ile Trp Lys Val Gly Asp  
   65                  70                  75                  80  
 Leu Arg Val Pro Gly Gly Arg Val Gln Asn Ile Gly His Cys Phe Gly  
                   85                  90                  95  
 His Ser Ala Arg Val Trp Gln Val Lys Leu Leu Glu Asn Tyr Leu Ile  
           100                  105                  110  
 Ser Ala Gly Glu Asp Cys Val Cys Leu Val Trp Ser His Glu Gly Glu  
   115                  120                  125  
 Ile Leu Gln Ala Phe Arg Gly His Gln Asp Val Tyr Pro Val Val Val  
   130                  135                  140  
 Gly Ala Glu Ile His Ala Glu Leu Tyr Gln Glu Leu Ala Tyr Leu Glu  
   145                  150                  155                  160  
 Thr Glu Thr Glu Ser Leu Ala His Leu Phe Ala Leu Val Pro Arg Pro  
           165                  170                  175  
 Glu

<210> 56  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 56  
 Met Ser Leu Ile Trp Glu Gln Gly Leu Gln Leu Cys Gly Phe Cys Leu  
   1                  5                  10                  15  
 Phe Tyr Leu Val Phe Cys Phe Cys Ile Ser Ser Leu Arg Val Met Ala

20                      25                      30  
 Phe Ser Cys Xaa His Val Ala Cys Cys Lys Gly Tyr Asp Phe Val Leu  
           35                      40                      45  
 Phe Tyr Gly Cys Val Val Phe His Gly Val Tyr Gly Pro His Phe Leu  
           50                      55                      60  
 Tyr Pro Ile His His Ile Trp Ala Pro Arg Leu Ile Pro Cys Leu Cys  
           65                      70                      75                      80  
 Tyr Cys Glu

<210> 57  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 57  
 Met Leu Trp Thr Leu Thr Phe Phe Leu Leu Gln Arg Ser Leu Thr Ser  
           1                      5                      10                      15  
 Pro Trp Leu Phe Gly Leu Leu Phe Leu Gly Ser Ser Asn Thr Ala Val  
                           20                      25                      30  
 Cys Cys Phe Leu Gly Gln Leu Ile Met Gly Pro Lys Gly Glu Arg Gly  
                           35                      40                      45  
 Phe Pro Gly Pro Pro Gly Arg Cys Leu Cys Gly Pro Thr Met Asn Val  
           50                      55                      60  
 Asn Asn Pro Ser Tyr Gly Glu Ser Val Tyr Gly Pro Ser Ser Pro Arg  
           65                      70                      75                      80  
 Val Pro Val Val Arg Leu Ser Gly Arg Ser Leu Gly Trp Leu Ser Val  
                           85                      90                      95  
 Arg Thr Ser His Leu Ile Leu Met Gly Leu Cys Lys Ile Leu Ser Val  
                           100                      105                      110  
 Lys Leu Thr Phe Phe His Asp Ser Glu Tyr Thr Leu Ile Ile Gly Asn  
           115                      120                      125  
 Trp Lys Ile  
           130

<210> 58  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (167)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 58

Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr  
 1 5 10 15  
 Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu  
 20 25 30  
 Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val  
 35 40 45  
 Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys  
 50 55 60  
 Val Leu Val Phe Ser Leu Ala Leu His Ser Val Phe Glu Gly Leu Ala  
 65 70 75 80  
 Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala  
 85 90 95  
 Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser Leu Ser Leu Arg Leu  
 100 105 110  
 Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu  
 115 120 125  
 Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu Gly Ala Ala Leu Ala  
 130 135 140  
 Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly  
 145 150 155 160  
 Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu Ile Leu Leu  
 165 170 175  
 Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg  
 180 185

<210> 59  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 59  
 Met Thr Phe Ser Pro Leu Ser Ser Thr Phe Trp Trp Ser Ser Arg Phe  
 1 5 10 15  
 His Cys Glu Met Leu Trp Phe Val Ser Leu Leu Val Thr Phe Thr Ala  
 20 25 30  
 His Ser Val Glu Tyr Ser Gln Tyr  
 35 40

<210> 60  
 <211> 338  
 <212> PRT  
 <213> Homo sapiens

<400> 60  
 Met Tyr Gly Tyr Val Asp Thr Leu Leu Thr Met Leu Ala Met Leu Leu

1	5	10	15
Lys Val Ala Met Asn Arg Ala Gln Val Cys Leu Ile Ser Ser Ser Lys	20	25	30
Ser Gly Glu Arg His Leu Tyr Leu Ile Lys Val Ser Arg Asp Lys Ile	35	40	45
Ser Asp Ser Asn Asp Gln Glu Ser Ala Asn Cys Asp Ala Lys Ala Ile	50	55	60
Phe Ala Val Leu Thr Ser Val Leu Thr Lys Asp Asp Trp Trp Asn Leu	65	70	75
Leu Leu Lys Ala Ile Tyr Ser Leu Cys Asp Leu Ser Arg Phe Gln Glu	85	90	95
Ala Glu Leu Leu Val Asp Ser Ser Leu Glu Tyr Tyr Ser Phe Tyr Asp	100	105	110
Asp Arg Gln Lys Arg Lys Glu Leu Glu Tyr Phe Gly Leu Ser Ala Ala	115	120	125
Ile Leu Asp Lys Asn Phe Arg Lys Ala Tyr Asn Tyr Ile Arg Ile Met	130	135	140
Val Met Glu Asn Val Asn Lys Pro Gln Leu Trp Asn Ile Phe Asn Gln	145	150	155
Val Thr Met His Ser Gln Asp Val Arg His His Arg Phe Cys Leu Arg	165	170	175
Leu Met Leu Lys Asn Pro Glu Asn His Ala Leu Cys Val Leu Asn Gly	180	185	190
His Asn Ala Phe Val Ser Gly Ser Phe Lys His Ala Leu Gly Gln Tyr	195	200	205
Val Gln Ala Phe Arg Thr His Pro Asp Glu Pro Leu Tyr Ser Phe Cys	210	215	220
Ile Gly Leu Thr Phe Ile His Met Ala Ser Gln Lys Tyr Val Leu Arg	225	230	235
Arg His Ala Leu Ile Val Gln Gly Phe Ser Phe Leu Asn Arg Tyr Leu	245	250	255
Ser Leu Arg Gly Pro Cys Gln Glu Ser Phe Tyr Asn Leu Gly Arg Gly	260	265	270
Leu His Gln Leu Gly Leu Ile His Leu Ala Ile His Tyr Tyr Gln Lys	275	280	285
Ala Leu Glu Leu Pro Pro Leu Val Val Glu Gly Ile Glu Leu Asp Gln	290	295	300
Leu Asp Leu Arg Arg Asp Ile Ala Tyr Asn Leu Ser Leu Ile Tyr Gln	305	310	315
Ser Ser Gly Asn Thr Gly Met Ala Gln Thr Leu Leu Tyr Thr Tyr Cys			



Ala	Ala	Leu	Tyr	Ala	Pro	Lys	Glu	Pro	Val	Leu	Asp	Tyr	Asn	Met	Val
				165					170					175	
Ile	Ile	Phe	Ile	Met	Ala	Val	Gly	Thr	Val	Ala	Ile	Gly	Gly	Tyr	Trp
			180					185					190		
Ala	Gly	Ser	Arg	Asp	Val	Lys	Lys	Arg	Tyr	Met	Lys	His	Lys	Arg	Asp
		195					200					205			
Asp	Gly	Pro	Glu	Lys	Gln	Glu	Asp	Glu	Ala	Val	Asp	Val	Thr	Pro	Val
	210					215					220				
Met	Thr	Cys	Val	Phe	Val	Val	Met	Cys	Cys	Ser	Met	Leu	Val	Leu	Leu
225					230					235					240
Tyr	Tyr	Phe	Tyr	Asp	Leu	Leu	Val	Cys	Val	Val	Ile	Gly	Ile	Phe	Cys
				245					250					255	
Leu	Ala	Ser	Ala	Thr	Gly	Leu	Tyr	Ser	Cys	Leu	Ala	Pro	Cys	Val	Arg
			260					265					270		
Arg	Leu	Pro	Phe	Gly	Lys	Cys	Arg	Ile	Pro	Asn	Asn	Ser	Leu	Pro	Tyr
		275					280					285			
Phe	His	Lys	Arg	Pro	Gln	Ala	Arg	Met	Leu	Leu	Leu	Ala	Leu	Phe	Cys
	290					295					300				
Val	Ala	Val	Ser	Val	Val	Trp	Gly	Val	Phe	Arg	Asn	Glu	Asp	Ser	Gly
305					310					315					320
Pro	Gly	Ser	Ser	Arg	Met	Pro	Trp	Ala	Ser	Pro	Ser	Ala	Ser	Thr	Cys
				325					330					335	

<210> 63

<211> 84

<212> PRT

<213> Homo sapiens

<400> 63

Met	Lys	Gly	Trp	Gly	Trp	Leu	Ala	Leu	Leu	Leu	Gly	Ala	Leu	Leu	Gly
1				5					10					15	
Thr	Ala	Trp	Ala	Arg	Arg	Ser	Gln	Asp	Leu	His	Cys	Gly	Ala	Cys	Arg
			20					25					30		
Ala	Leu	Val	Asp	Glu	Leu	Glu	Trp	Glu	Ile	Ala	Gln	Val	Asp	Pro	Lys
		35					40					45			
Lys	Thr	Ile	Gln	Met	Gly	Ser	Phe	Arg	Ile	Asn	Pro	Asp	Gly	Ser	Gln
	50					55					60				
Ser	Val	Val	Glu	Val	Thr	Val	Thr	Val	Pro	Pro	Asn	Lys	Val	Ala	His
65					70					75					80
Ser	Gly	Phe	Gly												
			84												

<210> 64  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 64  
 Met Val Ala Val Thr Gly Gly Val Gly Val Ala Ala Ala Leu Cys Leu  
 1 5 10 15  
 Cys Ser Leu Leu Leu Trp Pro Thr Arg Leu Arg Arg Ser Arg Gly Gly  
 20 25 30  
 Glu His Arg Thr Pro Ser Glu Gly Glu Gly Ile Ser Thr Ala Pro Pro  
 35 40 45  
 Pro Cys Trp Asn Glu Thr Gln Pro Gln Gly Gly Ala Lys Leu  
 50 55 60

<210> 65  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 65  
 Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn  
 1 5 10 15  
 Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly  
 20 25 30  
 Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu  
 35 40 45

Ser  
 49

<210> 66  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 66  
 Met Val Ala Leu Arg Gly Ala Ser Ala Leu Leu Val Leu Phe Leu Ala  
 1 5 10 15  
 Ala Phe Leu Pro Pro Pro Gln Cys Thr Gln Asp Pro Ala Met Val His  
 20 25 30  
 Tyr Ile Tyr Gln Arg Phe Arg Val Leu Glu Gln Gly Leu Glu Lys Cys  
 35 40 45  
 Thr Gln Ala Thr Arg Ala Tyr Ile Gln Glu Phe Gln Glu Phe Ser Lys  
 50 55 60  
 Asn Ile Ser Val Met Leu Gly Arg Cys Gln Thr Tyr Thr Ser Glu Tyr  
 65 70 75 80

Lys	Ser	Ala	Val	Gly	Asn	Leu	Ala	Leu	Arg	Val	Glu	Arg	Ala	Gln	Arg		
				85					90					95			
Glu	Ile	Asp	Tyr	Ile	Gln	Tyr	Leu	Arg	Glu	Ala	Asp	Glu	Cys	Ile	Glu		
			100					105					110				
Ser	Glu	Asp	Lys	Thr	Leu	Ala	Glu	Met	Leu	Leu	Gln	Glu	Ala	Glu	Glu		
		115					120					125					
Glu	Lys	Lys	Ile	Arg	Thr	Leu	Leu	Asn	Ala	Ser	Cys	Asp	Asn	Met	Leu		
	130					135					140						
Met	Gly	Ile	Lys	Ser	Leu	Lys	Ile	Val	Lys	Lys	Met	Met	Asp	Thr	His		
145					150					155					160		
Gly	Ser	Trp	Met	Lys	Asp	Ala	Val	Tyr	Asn	Ser	Pro	Lys	Val	Tyr	Leu		
				165					170					175			
Leu	Ile	Gly	Ser	Arg	Asn	Asn	Thr	Val	Trp	Glu	Phe	Ala	Asn	Ile	Arg		
			180					185					190				
Ala	Phe	Met	Glu	Asp	Asn	Thr	Lys	Pro	Ala	Pro	Arg	Lys	Gln	Ile	Leu		
		195					200					205					
Thr	Leu	Ser	Trp	Gln	Gly	Thr	Gly	Gln	Val	Ile	Tyr	Lys	Gly	Phe	Leu		
	210					215					220						
Phe	Phe	His	Asn	Gln	Ala	Thr	Ser	Asn	Glu	Ile	Ile	Lys	Tyr	Asn	Leu		
225				230					235						240		
Gln	Lys	Arg	Thr	Val	Glu	Asp	Arg	Met	Leu	Leu	Pro	Gly	Gly	Val	Gly		
			245					250						255			
Arg	Ala	Leu	Val	Tyr	Gln	His	Ser	Pro	Ser	Thr	Tyr	Ile	Asp	Leu	Ala		
			260					265					270				
Val	Asp	Glu	His	Gly	Leu	Trp	Ala	Ile	His	Ser	Gly	Pro	Gly	Thr	His		
	275					280						285					
Ser	His	Leu	Val	Leu	Thr	Lys	Ile	Glu	Pro	Gly	Thr	Leu	Gly	Val	Glu		
	290					295					300						
His	Ser	Trp	Asp	Thr	Pro	Cys	Arg	Ser	Gln	Asp	Ala	Glu	Ala	Ser	Phe		
305					310					315					320		
Leu	Leu	Cys	Gly	Val	Leu	Tyr	Val	Val	Tyr	Ser	Thr	Gly	Gly	Gln	Gly		
			325						330					335			
Pro	His	Arg	Ile	Thr	Cys	Ile	Tyr	Asp	Pro	Leu	Gly	Thr	Ile	Ser	Glu		
			340					345					350				
Glu	Asp	Leu	Pro	Asn	Leu	Phe	Phe	Pro	Lys	Arg	Pro	Arg	Ser	His	Ser		
		355					360					365					
Met	Ile	His	Tyr	Asn	Pro	Arg	Asp	Lys	Gln	Leu	Tyr	Ala	Trp	Asn	Glu		
	370					375					380						
Gly	Asn	Gln	Ile	Ile	Tyr	Lys	Leu	Gln	Thr	Lys	Arg	Lys	Leu	Thr	Leu		
385					390					395					400		

Lys

<210> 67

<211> 57

<212> PRT

<213> Homo sapiens

<400> 67

Met Val Ser Leu Leu Ser Ser Tyr Leu Leu Leu Leu Glu Leu Leu Ser  
1 5 10 15

Lys Arg Ser Leu Phe Leu Gln Trp Tyr Leu Phe Phe Gly Leu Gln Cys  
20 25 30

Cys Ser Ser Phe Leu Cys Arg Lys Asn Glu Ser Gln Cys Phe Thr Arg  
35 40 45

Leu Lys Glu Arg Ser Ala Gly Ser Val  
50 55

<210> 68

<211> 72

<212> PRT

<213> Homo sapiens

<400> 68

Met Leu Arg Pro Ala Leu Pro Trp Leu Tyr Leu Gly Leu Cys Ser Leu  
1 5 10 15

Leu Val Gly Glu Ala Glu Ala Pro Ser Pro Val Asp Pro Leu Glu Arg  
20 25 30

Ser Arg Pro Tyr Ala Val Leu Arg Gly Gln Asn Leu Val Leu Met Gly  
35 40 45

Thr Ile Phe Ser Ile Leu Leu Val Thr Val Ile Leu Met Ala Phe Cys  
50 55 60

Val Tyr Lys Pro Ile Arg Arg Arg  
65 70

<210> 69

<211> 50

<212> PRT

<213> Homo sapiens

<400> 69

Met Leu Thr Tyr Leu Pro Arg Trp Cys Phe Leu Ser Leu Pro Pro Pro  
1 5 10 15

Cys Cys Gly Ala Ala Ser Cys Thr Met Met His Ile Gln Ile Ile Leu  
20 25 30

Asn Thr His Ile Leu Ile Glu Arg Phe Leu Gly Phe Leu Leu Asn Gln  
35 40 45

Val Tyr  
50

<210> 70  
<211> 181  
<212> PRT  
<213> Homo sapiens

<400> 70  
Met Thr Ser Arg Arg Ser Ser Thr Leu Ser Met Thr Ser Ser Leu Leu  
1 5 10 15  
Ser Leu Gly Cys Ala Leu Thr Ser Ala Phe Pro Ala Ser Thr Met Ser  
20 25 30  
Trp Val Pro Leu Leu Gln Met Leu Asp Gln Ser Pro Arg Arg Val Met  
35 40 45  
Arg Lys Ser Val Ser Gln Leu Cys Pro Leu Leu Arg Pro His Pro Pro  
50 55 60  
Leu Ser Ser Lys His Pro Leu Val Leu Pro Leu Gln Leu Pro Pro Thr  
65 70 75 80  
Phe Leu His Leu Leu Pro Gly Pro Gly Cys Pro Gly Gln Thr Val Ala  
85 90 95  
Tyr Trp Leu Leu Glu Phe Leu Ser Arg Ala Thr Leu Lys Leu Tyr Pro  
100 105 110  
Gly Asp Arg Pro Leu Trp Leu Gln Pro Thr Arg Leu Asn Phe Lys Asp  
115 120 125  
His Trp Thr Ile Phe Ser Val Ala Ser Ala Ala Leu Phe Cys Val His  
130 135 140  
Arg Met Ala Thr Asp Arg His Ala Ser Phe Pro Thr His Trp Lys Ala  
145 150 155 160  
His Arg Gln Gly Glu Arg Gly His Arg Arg Cys Gln His Cys Arg Tyr  
165 170 175  
Ser Lys Asp Leu Lys  
180

<210> 71  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 71  
Met His Met Gly Leu Thr Thr Cys Lys Cys His Trp Lys Met Ala Tyr  
1 5 10 15  
Leu Arg Phe Leu Ile Leu Trp Ser Phe Pro Leu Ser Ser Ala Val Ser  
20 25 30

Gly Ala Lys Arg Val Thr Asp Leu Leu Asn Gly Lys His Trp Lys Pro  
 35 40 45

<210> 72  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 72  
 Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser  
 1 5 10 15  
 Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro  
 20 25 30  
 Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile  
 35 40 45  
 Ser Met Ser Leu Ser  
 50

<210> 73  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 73  
 Met Ser Val Val Pro Val Met Ile Pro Phe Leu Leu Leu Leu Phe Phe  
 1 5 10 15  
 Phe Ser Leu Ser Ser Thr His His Pro His Leu Leu Tyr Phe Ser Ile  
 20 25 30  
 Phe Ile Phe Ser Gly Ser Leu Leu Val Arg Ile Leu Ser Cys Arg Lys  
 35 40 45  
 Glu Ser Ser His Gln Val Leu Leu Ser Arg Lys Cys Phe Ile Lys Gly  
 50 55 60  
 His Arg Gln His Arg Gln Leu Thr Lys Val  
 65 70 74

<210> 74  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 74  
 Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala  
 1 5 10 15  
 Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Thr Thr  
 20 25 30  
 Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser



Ala	Leu	Gly	Phe	Leu	Ser	Thr	Ser	Ser	Gly	Val	Ser	Gly	Glu	Asp	Glu	65	70	75	80
Val	Glu	Pro	Leu	His	Asp	Gly	Val	Glu	Glu	Ala	Glu	Lys	Lys	Met	Glu	85	90	95	
Glu	Glu	Gly	Val	Ser	Val	Ser	Glu	Met	Glu	Ala	Thr	Gly	Ala	Gln	Gly	100	105	110	
Pro	Ser	Arg	Val	Glu	Glu	Ala	Glu	Gly	His	Thr	Glu	Val	Thr	Glu	Ala	115	120	125	
Glu	Gly	Ser	Gln	Gly	Thr	Ala	Glu	Ala	Asp	Gly	Pro	Gly	Ala	Ser	Ser	130	135	140	
Gly	Asp	Glu	Asp	Ala	Ser	Gly	Arg	Ala	Ala	Ser	Pro	Glu	Ser	Ala	Ser	145	150	155	160
Ser	Thr	Pro	Glu	Ser	Leu	Gln	Ala	Arg	Arg	His	His	Gln	Phe	Leu	Glu	165	170	175	
Pro	Ala	Pro	Ala	Pro	Gly	Ala	Ala	Val	Leu	Ser	Ser	Glu	Pro	Ala	Glu	180	185	190	
Pro	Leu	Leu	Val	Arg	His	Pro	Pro	Arg	Pro	Arg	Thr	Thr	Gly	Pro	Arg	195	200	205	
Pro	Arg	Gln	Asp	Pro	His	Lys	Ala	Gly	Leu	Ser	His	Tyr	Val	Lys	Leu	210	215	220	
Phe	Ser	Phe	Tyr	Ala	Lys	Met	Pro	Met	Glu	Arg	Lys	Ala	Leu	Glu	Met	225	230	235	240
Val	Glu	Lys	Cys	Leu	Asp	Lys	Tyr	Phe	Gln	His	Leu	Cys	Asp	Asp	Leu	245	250	255	
Glu	Val	Phe	Ala	Ala	His	Ala	Gly	Arg	Lys	Thr	Val	Lys	Pro	Glu	Asp	260	265	270	
Leu	Glu	Leu	Leu	Met	Arg	Arg	Gln	Gly	Leu	Val	Thr	Asp	Gln	Val	Ser	275	280	285	
Leu	His	Val	Leu	Val	Glu	Arg	His	Leu	Pro	Leu	Glu	Tyr	Arg	Gln	Leu	290	295	300	
Leu	Ile	Pro	Cys	Ala	Tyr	Ser	Gly	Asn	Ser	Val	Phe	Pro	Ala	Gln		305	310	315	319

<210> 78

<211> 171

<212> PRT

<213> Homo sapiens

<400> 78

Met	Ser	Leu	Pro	Ile	Pro	Trp	Leu	Ser	Leu	Pro	Pro	Cys	Pro	Ile	Leu	1	5	10	15
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---	---	----	----

Gly Gln Pro Ala Gly Leu Leu Leu Trp Leu Phe Arg Pro Phe Ser Gln  
                     20                                    25                                    30  
 Cys Cys Gln Cys Pro Trp Glu Gly Arg Ala Ser Leu Arg His Pro Asn  
                     35                                    40                                    45  
 Gly Pro Ser Gly Cys Arg Glu Ala Glu Ala Trp Pro Gln Arg Ser Leu  
                     50                                    55                                    60  
 Leu Arg Gln Gln Leu Gln Gln Ala His Pro Leu Pro Thr Leu Pro Thr  
                     65                                    70                                    75                                    80  
 Pro Glu Arg Leu Pro Glu Gln Met Leu Phe Pro Ser Ser Ser Ser Lys  
                                     85                                    90                                    95  
 Pro Phe Ser Leu Leu Ser Leu Thr Ile Trp Ala Arg Leu Val Gly Arg  
                                     100                                    105                                    110  
 Leu Thr Asn Arg Ile Cys Pro Val Pro Pro Gly Ser Val Ala Ser Ser  
                                     115                                    120                                    125  
 Met Ser Leu Gln Ala Gly Arg Cys Gly Asn Pro Val Val Leu Pro Gln  
                     130                                    135                                    140  
 Pro Met Pro Pro Gly Leu Leu Cys Met Asn Glu Cys Ser Leu Val Pro  
                     145                                    150                                    155                                    160  
 Gly Leu Gly Arg Gly Gln Val Asn Ser Arg Val  
                                     165                                    170

<210> 79  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 79  
 Met Val Ser Arg Ser Thr Ser Leu Thr Leu Ile Val Phe Leu Phe His  
           1                                    5                                    10                                    15  
 Arg Leu Ser Lys Ala Pro Gly Lys Met Val Glu Asn Ser Pro Ser Pro  
                     20                                    25                                    30  
 Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln  
                     35                                    40                                    45  
 Phe Gly Phe Lys Asn Leu Lys Gly Ser Arg Val Cys  
                     50                                    55                                    60

<210> 80  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> MISC\_FEATURE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 80  
 Met Leu Pro Ser Ala Trp Gly Pro Leu Gln Val Ala Ser Phe Phe Leu  
 1 5 10 15  
 Leu Ser Phe Xaa Phe Cys Phe Leu Ser Ser Ser Pro His Leu Gly Arg  
 20 25 30  
 Gln Glu Thr His Xaa Val Val Leu Glu Asp Asp Glu Gly Ala Pro Cys  
 35 40 45  
 Pro Ala Glu Asp Glu Leu Ala Leu Gln Asp Asn Gly Phe Leu Ser Lys  
 50 55 60  
 Asn Glu Val Leu Arg Thr Arg Cys Leu Gly Ser Arg Ser Gly Ser Ala  
 65 70 75 80  
 Ser Ala Thr Pro Pro Thr Thr Ser Gly Thr Ala Arg Ala Ala Arg Pro  
 85 90 95  
 Pro Ser Gln Cys  
 100

<210> 81  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 81  
 Met Ala Leu Leu Ala Leu Ala Ser Ala Val Pro Ser Ala Leu Leu Ala  
 1 5 10 15  
 Leu Ala Val Phe Arg Val Pro Ala Trp Ala Cys Leu Leu Cys Phe Thr  
 20 25 30  
 Thr Tyr Ser Glu Arg Leu Arg Ile Cys Gln Met Phe Val Gly Met Arg  
 35 40 45  
 Ser Pro Ser Leu Lys Ser Val Arg Arg Pro Ser Arg Pro Pro Ser Arg  
 50 55 60  
 Ala Ser Leu Thr Pro Lys Ser Val Arg Arg Pro Ser Thr Leu His Gln  
 65 70 75 80  
 Cys Pro Gly Glu Gly Ala Glu Gly Gly Gln Glu Arg Pro Arg Gly Ser  
 85 90 95  
 Gly

<210> 82  
 <211> 52  
 <212> PRT

<213> Homo sapiens

<400> 82

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Met Trp Leu Asn Phe Ser Asp Val His Thr Tyr Leu Ser Ser Ile Ala
 1              5              10              15

Leu Leu Cys Phe Cys Leu Ser Gly Val Leu Cys Cys Ile Cys Asn Asn
      20              25              30

Ser Val Phe His Ile Gln Gln Tyr Ile Leu Ile Ile Ile Thr Phe Pro
      35              40              45

Leu Val Val Ile
      50
```

<210> 83

<211> 40

<212> PRT

<213> Homo sapiens

<400> 83

```
Met Ser His Ala Ser Arg Lys Thr Lys His Phe Pro Pro Leu Leu Gln
 1              5              10              15

Asn Pro Phe Leu Met Leu Thr Leu Leu Thr Met Ala Val Ser Ala Gln
      20              25              30

Pro Leu Pro Phe Ser Arg Pro Arg
      35              40
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<210> 84

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 84

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Met Ala Ala Ala Val Ala Ala Ala Leu Ala Arg Leu Leu Ala Ala Phe
 1              5              10              15

Leu Leu Leu Ala Ala Gln Val Ala Cys Glu Tyr Gly Met Val His Val
      20              25              30

Val Ser Gln Ala Gly Gly Pro Glu Gly Lys Asp Tyr Cys Ile Leu Tyr
      35              40              45

Asn Pro Gln Trp Ala His Leu Pro His Asp Leu Ser Lys Ala Ser Phe
      50              55              60

Leu Gln Leu Arg Asn Trp Thr Ala Ser Leu Leu Cys Ser Ala Ala Asp
      65              70              75              80

Leu Pro Ala Arg Gly Phe Ser Asn Gln Ile Pro Leu Val Ala Arg Gly
      85              90              95
```

Asn Cys Thr Phe Tyr Glu Lys Val Arg Leu Ala Gln Gly Ser Gly His  
100 105 110

Ala Gly Cys Ser Ser Ser Ala Gly Arg Xaa Trp Ser Pro Arg Gly Val  
115 120 125

Ile Arg Arg Ile  
130

<210> 85  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 85  
His Ser Ser Leu Pro His Phe Ser Ser Arg Ile  
1 5 10

<210> 86  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 86  
Arg Asp Ser Asn Gly Arg Gly Asp Ser Ser Leu Leu Lys Phe Val Cys  
1 5 10 15

Pro Val Pro Leu Lys Lys  
20

<210> 87  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 87  
Ile Pro Glu Tyr Thr Phe Arg Arg Arg Trp Phe His  
1 5 10

<210> 88  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 88  
Leu Cys Val Ser Met Lys Ile Glu Trp Gly Arg Glu Ser Cys Glu Lys  
1 5 10 15

Lys

<210> 89  
<211> 25  
<212> PRT

<213> Homo sapiens

<400> 89

Arg Leu Lys Thr Thr Arg Ala Tyr Ser Ser Gln Phe Trp Arg Pro Glu  
1 5 10 15

Val Gln Asn Gln Gly Val Arg Lys Val  
20 25

<210> 90

<211> 165

<212> PRT

<213> Homo sapiens

<400> 90

Leu Thr Leu Cys Leu Pro Arg Ser Leu Tyr Ala Leu Pro Gln Cys Pro  
1 5 10 15

Gly Pro His Val His Pro Cys Pro Ala Leu Leu Trp Asp Arg Ala Gly  
20 25 30

Leu Pro Leu Pro Leu Pro Gly Cys Ile His Gly Arg Ser Gln Val Pro  
35 40 45

Trp His Glu Leu His Ser Pro Ala Ala Phe Asn Gln Gly Met Met Gly  
50 55 60

Met Cys Thr Tyr Pro Thr Pro Pro Leu Gly Arg Val Met Leu Arg Cys  
65 70 75 80

Gly Phe Leu Thr Val Pro Arg Leu Ser Gln Glu Ala Trp Val Trp Val  
85 90 95

Pro Thr Val Gly Ala Gly Val Ile Ser Tyr Leu Arg Arg Pro Pro Phe  
100 105 110

Leu Pro Val Leu Cys Ala Pro Thr Pro Thr Leu Glu Leu Pro Arg Phe  
115 120 125

Ser Val Phe Val Lys Glu Leu Thr Leu Cys Cys Leu Pro Leu Ser Gln  
130 135 140

Cys Pro Cys His Ser Cys Glu Pro Ala Ala Gly Glu Val Gly Ala Asp  
145 150 155 160

Leu Cys Val Ala Gly  
165

<210> 91

<211> 41

<212> PRT

<213> Homo sapiens

<400> 91

Leu Thr Leu Cys Leu Pro Arg Ser Leu Tyr Ala Leu Pro Gln Cys Pro  
1 5 10 15

Gly Pro His Val His Pro Cys Pro Ala Leu Leu Trp Asp Arg Ala Gly

20 25 30  
 Leu Pro Leu Pro Leu Pro Gly Cys Ile  
 35 40  
  
 <210> 92  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 92  
 His Gly Arg Ser Gln Val Pro Trp His Glu Leu His Ser Pro Ala Ala  
 1 5 10 15  
 Phe Asn Gln Gly Met Met Gly Met Cys Thr Tyr Pro Thr Pro Pro Leu  
 20 25 30  
 Gly Arg Val Met Leu Arg  
 35  
  
 <210> 93  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 93  
 Cys Gly Phe Leu Thr Val Pro Arg Leu Ser Gln Glu Ala Trp Val Trp  
 1 5 10 15  
 Val Pro Thr Val Gly Ala Gly Val Ile Ser Tyr Leu Arg Arg Pro Pro  
 20 25 30  
 Phe Leu Pro Val Leu Cys Ala Pro Thr  
 35 40  
  
 <210> 94  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 94  
 Pro Thr Leu Glu Leu Pro Arg Phe Ser Val Phe Val Lys Glu Leu Thr  
 1 5 10 15  
 Leu Cys Cys Leu Pro Leu Ser Gln Cys Pro Cys His Ser Cys Glu Pro  
 20 25 30  
 Ala Ala Gly Glu Val Gly Ala Asp Leu Cys Val Ala Gly  
 35 40 45  
  
 <210> 95  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 95

Ile Arg His Glu Thr Phe Arg Val Arg Gly Cys Ser Ile Ser Arg Ala  
 1 5 10 15  
 Leu Ser Pro Phe Pro Leu Pro Phe Pro His Pro Gly Arg Ser Gly Trp  
 20 25 30  
 Ser Gly Pro Glu Ala Lys  
 35

<210> 96  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 96  
 Pro Asp Ser Arg Pro Glu Ala Arg Gly Asp His Val Val Arg Pro Ser  
 1 5 10 15  
 Arg Gly Leu Arg Val Thr Gly Ala Thr Arg Ser Ile Met Gly Pro Trp  
 20 25 30  
 Gly Glu Pro Glu Leu Leu Val Trp Arg Pro Glu Ala Val Ala Ser Glu  
 35 40 45  
 Pro Pro Val Pro Val Gly Leu Glu Val Lys Leu Gly Ala Leu Val Leu  
 50 55 60  
 Leu Leu Val Leu Thr Leu Leu Cys Ser Leu Val Pro Ile Cys Val Leu  
 65 70 75 80  
 Arg Arg Pro Gly Ala Asn His Glu Gly Ser Ala Ser Arg Gln Lys Ala  
 85 90 95  
 Leu Ser Leu Val Ser Cys Phe Ala Gly Gly Val Phe Leu Ala Thr Cys  
 100 105 110  
 Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile Asp Glu Ala Leu  
 115 120 125  
 Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln Glu Phe Ile Leu  
 130 135 140  
 Ala  
 145

<210> 97  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 97  
 Pro Asp Ser Arg Pro Glu Ala Arg Gly Asp His Val Val Arg Pro Ser  
 1 5 10 15  
 Arg Gly Leu Arg Val Thr Gly Ala Thr Arg Ser Ile Met Gly Pro Trp  
 20 25 30  
 Gly Glu Pro

<210> 98  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 98  
 Glu Leu Leu Val Trp Arg Pro Glu Ala Val Ala Ser Glu Pro Pro Val  
   1                  5                  10                  15  
 Pro Val Gly Leu Glu Val Lys Leu Gly Ala Leu Val Leu Leu Leu Val  
           20                  25                  30  
 Leu Thr Leu Leu Cys  
           35

<210> 99  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 99  
 Ser Leu Val Pro Ile Cys Val Leu Arg Arg Pro Gly Ala Asn His Glu  
   1                  5                  10                  15  
 Gly Ser Ala Ser Arg Gln Lys Ala Leu Ser Leu Val Ser Cys Phe Ala  
           20                  25                  30  
 Gly Gly Val Phe  
           35

<210> 100  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Leu Ala Thr Cys Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile  
   1                  5                  10                  15  
 Asp Glu Ala Leu Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln  
           20                  25                  30  
 Glu Phe Ile Leu Ala  
           35

<210> 101  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 101  
 Lys Tyr Ile Leu Ser Ser Pro Leu Leu Asp Ser Leu Ala Glu His Lys  
   1                  5                  10                  15

Asn Leu Val Trp Lys Ser Phe Leu Pro Arg Asn Phe  
 20 25

<210> 102  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 102  
 Tyr Gly Lys Val Val Asp Leu Ala Pro Leu His Leu Asp Ala Arg Ile  
 1 5 10 15  
 Ser Leu Ser Thr Leu Gln Gln Gln Leu Gly Gln Pro Glu Lys Ala Leu  
 20 25 30  
 Glu Ala Leu Glu Pro Met Tyr Asp Pro Asp Thr Leu Ala Gln Asp Ala  
 35 40 45  
 Asn Ala Ala Gln Xaa Glu Leu Lys Leu Leu Leu His Arg Ser Thr Leu  
 50 55 60  
 Leu Phe Ser Gln Gly Lys  
 65 70

<210> 103  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 103  
 Asp Phe Met Glu Thr Phe Pro Asp Phe Cys Leu Pro Leu Ala Pro His  
 1 5 10 15  
 Tyr Leu Gly Lys Ala Ala Leu Trp Ala Met Cys Pro Gly Arg Ala Trp  
 20 25 30  
 Ala Gly Cys Gly Pro Val Leu Arg Thr Ser His Leu Gly Pro His Ser  
 35 40 45  
 Ala Leu Pro Ser Trp Cys Asn Ile Cys Xaa Gln Ala Ile Val Gly Ala  
 50 55 60  
 Gly Arg Gln Arg Gly Leu Ser Glu Asp Pro Thr Cys Ala Ser His Trp  
 65 70 75 80  
 Asp Thr Lys Thr Gly Leu Val Pro Ser Cys Gly Ala Gly Lys Gly Ile  
 85 90 95

<210> 104  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 104  
 Asp Phe Met Glu Thr Phe Pro Asp Phe Cys Leu Pro Leu Ala Pro His  
     1                    5                    10                    15  
 Tyr Leu Gly Lys Ala Ala Leu Trp Ala Met Cys Pro Gly Arg Ala Trp  
             20                    25                    30  
 Ala Gly Cys Gly Pro Val Leu Arg Thr Ser His Leu  
             35                    40

<210> 105  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 105  
 Gly Pro His Ser Ala Leu Pro Ser Trp Cys Asn Ile Cys Xaa Gln Ala  
     1                    5                    10                    15  
 Ile Val Gly Ala Gly Arg Gln Arg Gly Leu Ser Glu Asp Pro Thr Cys  
             20                    25                    30  
 Ala Ser His Trp Asp Thr Lys Thr Gly Leu Val Pro Ser Cys Gly Ala  
             35                    40                    45  
 Gly Lys Gly Ile  
     50

<210> 106  
 <211> 280  
 <212> PRT  
 <213> Homo sapiens

<400> 106  
 Arg Leu Pro Gln Arg Gly Gln Trp Ala Trp Val Leu Gln Asp Ala Leu  
     1                    5                    10                    15  
 Gly Ile Ala Phe Cys Leu Tyr Met Leu Lys Thr Ile Arg Leu Pro Thr  
             20                    25                    30  
 Phe Lys Ala Cys Thr Leu Leu Leu Leu Val Leu Phe Leu Tyr Asp Ile  
             35                    40                    45  
 Phe Phe Val Phe Ile Thr Pro Phe Leu Thr Lys Ser Gly Ser Ser Ile

50	55	60
Met Val Glu Val Ala Thr Gly Pro Ser Asp Ser Ala Thr Arg Glu Lys 65 70 75 80		
Leu Pro Met Val Leu Lys Val Pro Arg Leu Asn Ser Ser Pro Leu Ala 85 90 95		
Leu Cys Asp Arg Pro Phe Ser Leu Leu Gly Phe Gly Asp Ile Leu Val 100 105 110		
Pro Gly Leu Leu Val Ala Tyr Cys His Arg Phe Asp Ile Gln Val Gln 115 120 125		
Ser Ser Arg Val Tyr Phe Val Ala Cys Thr Ile Ala Tyr Gly Val Gly 130 135 140		
Leu Leu Val Thr Phe Val Ala Leu Ala Leu Met Gln Arg Gly Gln Pro 145 150 155 160		
Ala Leu Leu Tyr Leu Val Pro Cys Thr Leu Val Thr Ser Cys Ala Val 165 170 175		
Ala Leu Trp Arg Arg Glu Leu Gly Val Phe Trp Thr Gly Ser Gly Phe 180 185 190		
Ala Lys Val Leu Pro Pro Ser Pro Trp Ala Pro Ala Pro Ala Asp Gly 195 200 205		
Pro Gln Pro Pro Lys Asp Ser Ala Thr Pro Leu Ser Pro Gln Pro Pro 210 215 220		
Ser Glu Glu Pro Ala Thr Ser Pro Trp Pro Ala Glu Gln Ser Pro Lys 225 230 235 240		
Ser Arg Thr Ser Glu Glu Met Gly Ala Gly Ala Pro Met Arg Glu Pro 245 250 255		
Gly Ser Pro Ala Glu Ser Glu Gly Arg Asp Gln Ala Gln Pro Ser Pro 260 265 270		
Val Thr Gln Pro Gly Ala Ser Ala 275 280		

<210> 107

<211> 43

<212> PRT

<213> Homo sapiens

<400> 107

Arg Leu Pro Gln Arg Gly Gln Trp Ala Trp Val Leu Gln Asp Ala Leu 1 5 10 15
--

Gly Ile Ala Phe Cys Leu Tyr Met Leu Lys Thr Ile Arg Leu Pro Thr 20 25 30
---

Phe Lys Ala Cys Thr Leu Leu Leu Leu Val Leu 35 40
--

<210> 108  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 108  
 Phe Leu Tyr Asp Ile Phe Phe Val Phe Ile Thr Pro Phe Leu Thr Lys  
 1 5 10 15  
 Ser Gly Ser Ser Ile Met Val Glu Val Ala Thr Gly Pro Ser Asp Ser  
 20 25 30  
 Ala Thr Arg Glu Lys Leu Pro Met Val Leu Lys Val  
 35 40

<210> 109  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 109  
 Pro Arg Leu Asn Ser Ser Pro Leu Ala Leu Cys Asp Arg Pro Phe Ser  
 1 5 10 15  
 Leu Leu Gly Phe Gly Asp Ile Leu Val Pro Gly Leu Leu Val Ala Tyr  
 20 25 30  
 Cys His Arg Phe Asp Ile Gln Val Gln Ser Ser Arg  
 35 40

<210> 110  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 110  
 Val Tyr Phe Val Ala Cys Thr Ile Ala Tyr Gly Val Gly Leu Leu Val  
 1 5 10 15  
 Thr Phe Val Ala Leu Ala Leu Met Gln Arg Gly Gln Pro Ala Leu Leu  
 20 25 30  
 Tyr Leu Val Pro Cys Thr Leu Val Thr Ser Cys  
 35 40

<210> 111  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 111  
 Ala Val Ala Leu Trp Arg Arg Glu Leu Gly Val Phe Trp Thr Gly Ser  
 1 5 10 15  
 Gly Phe Ala Lys Val Leu Pro Pro Ser Pro Trp Ala Pro Ala Pro Ala  
 20 25 30

Asp Gly Pro Gln Pro Pro Lys Asp  
35 40

<210> 112  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 112  
Ser Ala Thr Pro Leu Ser Pro Gln Pro Pro Ser Glu Glu Pro Ala Thr  
1 5 10 15

Ser Pro Trp Pro Ala Glu Gln Ser Pro Lys Ser Arg Thr Ser Glu Glu  
20 25 30

Met Gly Ala Gly Ala Pro Met Arg Glu  
35 40

<210> 113  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 113  
Pro Gly Ser Pro Ala Glu Ser Glu Gly Arg Asp Gln Ala Gln Pro Ser  
1 5 10 15

Pro Val Thr Gln Pro Gly Ala Ser Ala  
20 25

<210> 114  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 114  
Glu Ser Ser Gly Leu Pro Ala Leu Gly Pro Arg Arg Arg Pro Trp Glu  
1 5 10 15

Gln Arg Trp Ser Asp Pro Ile Thr Leu Lys  
20 25

<210> 115  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 115  
Leu Thr Leu Ala Leu Asp Glu Ile Arg Leu Leu Lys Lys Asp Leu Gly  
1 5 10 15

Leu Ile Glu Met Lys Lys Thr Asp Ser Glu Lys Arg Phe Gly Ser Val  
20 25 30

Ser Phe Gly Arg Ser Cys Arg Leu Ile Pro His Ala Leu Ala Ser Trp

35                                      40                                      45  
 Leu Gln Thr Leu Ile Leu Cys Phe Cys Cys Arg Ile Cys  
 50                                      55                                      60

<210> 116  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 116  
 Gly Arg Pro Thr Arg Pro Val Met Ala Ile Gln Ser Leu His Pro Cys  
 1                                      5                                      10                                      15  
 Pro Ser Glu Leu Cys Cys Arg Ala Cys Val Xaa Phe Tyr His Trp Ala  
 20                                      25                                      30

<210> 117  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 117  
 Asn Ser Lys Asn Thr Arg Asn Glu Arg Ser Phe Leu Lys Leu Phe Arg  
 1                                      5                                      10                                      15  
 Asn Ile His Asp Ile Pro Leu Thr Val Leu Glu Asn Lys  
 20                                      25

<210> 118  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 118  
 Pro Arg Val Arg Gly Glu Gly Asn Arg Cys Trp Thr Gln Gly Ala Leu  
 1                                      5                                      10                                      15  
 Cys His Arg Met  
 20

<210> 119  
 <211> 421  
 <212> PRT  
 <213> Homo sapiens

<400> 119  
 Pro Arg Val Arg Gly Glu Gly Asn Arg Cys Trp Thr Gln Gly Ala Leu

1	5	10	15
Cys His Arg Met Met Val Ala Leu Arg Gly Ala Ser Ala Leu Leu Val	20	25	30
Leu Phe Leu Ala Ala Phe Leu Pro Pro Gln Cys Thr Gln Asp Pro	35	40	45
Ala Met Val His Tyr Ile Tyr Gln Arg Phe Arg Val Leu Glu Gln Gly	50	55	60
Leu Glu Lys Cys Thr Gln Ala Thr Arg Ala Tyr Ile Gln Glu Phe Gln	65	70	80
Glu Phe Ser Lys Asn Ile Ser Val Met Leu Gly Arg Cys Gln Thr Tyr	85	90	95
Thr Ser Glu Tyr Lys Ser Ala Val Gly Asn Leu Ala Leu Arg Val Glu	100	105	110
Arg Ala Gln Arg Glu Ile Asp Tyr Ile Gln Tyr Leu Arg Glu Ala Asp	115	120	125
Glu Cys Ile Glu Ser Glu Asp Lys Thr Leu Ala Glu Met Leu Leu Gln	130	135	140
Glu Ala Glu Glu Glu Lys Lys Ile Arg Thr Leu Leu Asn Ala Ser Cys	145	150	160
Asp Asn Met Leu Met Gly Ile Lys Ser Leu Lys Ile Val Lys Lys Met	165	170	175
Met Asp Thr His Gly Ser Trp Met Lys Asp Ala Val Tyr Asn Ser Pro	180	185	190
Lys Val Tyr Leu Leu Ile Gly Ser Arg Asn Asn Thr Val Trp Glu Phe	195	200	205
Ala Asn Ile Arg Ala Phe Met Glu Asp Asn Thr Lys Pro Ala Pro Arg	210	215	220
Lys Gln Ile Leu Thr Leu Ser Trp Gln Gly Thr Gly Gln Val Ile Tyr	225	230	240
Lys Gly Phe Leu Phe Phe His Asn Gln Ala Thr Ser Asn Glu Ile Ile	245	250	255
Lys Tyr Asn Leu Gln Lys Arg Thr Val Glu Asp Arg Met Leu Leu Pro	260	265	270
Gly Gly Val Gly Arg Ala Leu Val Tyr Gln His Ser Pro Ser Thr Tyr	275	280	285
Ile Asp Leu Ala Val Asp Glu His Gly Leu Trp Ala Ile His Ser Gly	290	295	300
Pro Gly Thr His Ser His Leu Val Leu Thr Lys Ile Glu Pro Gly Thr	305	310	320
Leu Gly Val Glu His Ser Trp Asp Thr Pro Cys Arg Ser Gln Asp Ala			



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<211> 24
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
Lys Asp Thr Cys Thr Arg Met Xaa Ile Ala Ala Leu Phe Thr Ile Ala
  1             5             10             15

Lys Ile Trp Asn Gln Pro Lys Xaa
          20

<210> 123
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 123
Arg His Met His Thr Tyr Val Tyr Cys Gly Thr Ile His Asn Ser Lys
  1             5             10             15

Asp Leu Glu Pro Thr Gln Met Xaa Asp Xaa Ile Lys Lys Met Trp His
          20             25             30

Leu Tyr Thr Thr Lys Tyr Tyr Ala Ala Ile Lys Lys Asp
      35             40             45

<210> 124
<211> 14
<212> PRT
<213> Homo sapiens

<400> 124
Arg Lys Cys Gly Thr Tyr Ile Pro Arg Asn Thr Met Gln Pro
  1             5             10

<210> 125
<211> 40

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<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 125
Lys Arg Thr Glu Phe Met Ser Phe Xaa Gly Thr Trp Met Lys Leu Glu
 1             5             10             15

Ala Ile Ile Leu Ser Lys Leu Thr Gln Glu Glu Lys Thr Lys His Leu
          20             25             30

Met Phe Ser Leu Ile Ser Gly Ser
      35             40

<210> 126
<211> 11
<212> PRT
<213> Homo sapiens

<400> 126
Pro Lys Ser Asp Thr Ser Pro Ala Ser Ser Arg
 1             5             10

<210> 127
<211> 15
<212> PRT
<213> Homo sapiens

<400> 127
Pro Lys Ser Asp Thr Ser Pro Ala Ser Ser Arg Leu Cys Trp Asp
 1             5             10             15

<210> 128
<211> 270
<212> PRT
<213> Homo sapiens

<400> 128
Tyr Val Pro Ser Phe Leu Pro Lys Ala Thr Gly Ser Ile Pro Ser Arg
 1             5             10             15

Lys Gly Gly Val Gly Ser Glu Lys Pro Glu Val Pro Leu Gln Thr Tyr
          20             25             30

Lys Glu Ile Val His Cys Cys Glu Glu Gln Val Leu Thr Leu Ala Thr
          35             40             45

Glu Gln Thr Tyr Ala Val Glu Gly Glu Thr Pro Ile Asn Arg Leu Ser
          50             55             60

Leu Leu Leu Ser Gly Arg Val Arg Val Ser Gln Asp Gly Gln Phe Leu
          65             70             75             80

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20

25

<210> 131  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 131  
 Gln Asp Gly Gln Phe Leu His Tyr Ile Phe Pro Tyr Gln Phe Met Asp  
 1 5 10 15  
 Ser Pro Glu Trp Glu Ser Leu  
 20

<210> 132  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Thr Leu Thr Ala Glu Thr Ser Cys Ser Tyr Ile Ser Trp Pro Arg Lys  
 1 5 10 15  
 Ser Leu His Leu Leu Leu Thr  
 20

<210> 133  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 133  
 Asp Ile Ser Glu Lys Leu Tyr Thr Leu Asn Asp Lys Leu Phe Ala Lys  
 1 5 10 15  
 Phe Gly Leu Arg Phe Asp Ile Arg Leu  
 20 25

<210> 134  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 134  
 Ser Leu Tyr His Val Leu Gly Pro Thr Ala Ala Asp Ala Gly Pro Glu  
 1 5 10 15  
 Ser Glu Lys Gly Asp Glu Glu Val Cys Glu  
 20 25

<210> 135  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 135

Thr Thr Asn Phe Pro Ala Pro Pro Thr Arg Ala Arg Leu Ser Arg Pro  
1 5 10 15

Asp Ser Gly Ile Leu Ala Ser Arg Ile Pro Leu Gln  
20 25

<210> 136

<211> 196

<212> PRT

<213> Homo sapiens

<400> 136

Pro Lys Ser Asp Thr Ser Pro Ala Ser Ser Arg Leu Cys Trp Asp Met  
1 5 10 15

Thr Ser Arg Arg Ser Ser Thr Leu Ser Met Thr Ser Ser Leu Leu Ser  
20 25 30

Leu Gly Cys Ala Leu Thr Ser Ala Phe Pro Ala Ser Thr Met Ser Trp  
35 40 45

Val Pro Leu Leu Gln Met Leu Asp Gln Ser Pro Arg Arg Val Met Arg  
50 55 60

Lys Ser Val Ser Gln Leu Cys Pro Leu Leu Arg Pro His Pro Pro Leu  
65 70 75 80

Ser Ser Lys His Pro Leu Val Leu Pro Leu Gln Leu Pro Pro Thr Phe  
85 90 95

Leu His Leu Leu Pro Gly Pro Gly Cys Pro Gly Gln Thr Val Ala Tyr  
100 105 110

Trp Leu Leu Glu Phe Leu Ser Arg Ala Thr Leu Lys Leu Tyr Pro Gly  
115 120 125

Asp Arg Pro Leu Trp Leu Gln Pro Thr Arg Leu Asn Phe Lys Asp His  
130 135 140

Trp Thr Ile Phe Ser Val Ala Ser Ala Ala Leu Phe Cys Val His Arg  
145 150 155 160

Met Ala Thr Asp Arg His Ala Ser Phe Pro Thr His Trp Lys Ala His  
165 170 175

Arg Gln Gly Glu Arg Gly His Arg Arg Cys Gln His Cys Arg Tyr Ser  
180 185 190

Lys Asp Leu Lys  
195

<210> 137

<211> 10

<212> PRT

<213> Homo sapiens

<400> 137

Tyr Phe Ser His Gly Ile Cys Ser His Ala  
1 5 10

<210> 138  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 138  
Asn Ser Glu Asp Ile Ser Gln Thr Arg Gln Glu Leu Gly Leu Cys Ile  
1 5 10 15

Ser Gln Arg Cys Leu Ser Asp Arg Lys Lys Ser Arg Arg Ser Gly Val  
20 25 30

Trp Val Arg Ala Cys Thr Met Gln Phe Met Lys His Val Phe Pro Arg  
35 40 45

Leu Ile Ser Pro Arg Arg Pro  
50 55

<210> 139  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 139  
Pro Thr Arg His Phe Cys Gly Thr Ser Ser Cys Leu Thr Gly Thr Ala  
1 5 10 15

Val Arg Cys Arg Ala Pro Ala Pro Val Trp Ser Val Arg Cys Pro His  
20 25 30

Cys Phe Arg Ser Ser Asp Ala Trp Val Asp Pro Gly Ile Pro Asp Arg  
35 40 45

Tyr Leu Gln Ala Tyr Leu Leu  
50 55

<210> 140  
<211> 246  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 140  
Gly Glu Ala Met Asp Ala Glu Xaa Ala Val Ala Pro Pro Gly Cys Ser  
1 5 10 15

His Leu Gly Ser Phe Lys Val Asp Asn Trp Lys Gln Asn Leu Arg Ala  
20 25 30

Ile Tyr Gln Cys Phe Val Trp Ser Gly Thr Ala Glu Ala Arg Lys Arg

35					40					45					
Lys	Ala	Lys	Ser	Cys	Ile	Cys	His	Val	Cys	Gly	Val	His	Leu	Asn	Arg
50					55					60					
Leu	His	Ser	Cys	Leu	Tyr	Cys	Val	Phe	Phe	Gly	Cys	Phe	Thr	Lys	Lys
65					70					75					80
His	Ile	His	Glu	His	Ala	Lys	Ala	Lys	Arg	His	Asn	Leu	Ala	Ile	Asp
				85					90					95	
Leu	Met	Tyr	Gly	Gly	Ile	Tyr	Cys	Phe	Leu	Cys	Gln	Asp	Tyr	Ile	Tyr
			100					105					110		
Asp	Lys	Asp	Met	Glu	Ile	Ile	Ala	Lys	Glu	Glu	Gln	Arg	Lys	Ala	Trp
		115					120					125			
Lys	Met	Gln	Gly	Val	Gly	Glu	Lys	Phe	Ser	Thr	Trp	Glu	Pro	Thr	Lys
	130					135					140				
Arg	Glu	Leu	Glu	Leu	Leu	Lys	His	Asn	Pro	Lys	Arg	Arg	Lys	Ile	Thr
145					150					155					160
Ser	Asn	Cys	Thr	Ile	Gly	Leu	Arg	Gly	Leu	Ile	Asn	Leu	Gly	Asn	Thr
				165					170					175	
Cys	Phe	Met	Asn	Cys	Ile	Val	Gln	Ala	Leu	Thr	His	Thr	Pro	Leu	Leu
			180					185					190		
Arg	Asp	Phe	Phe	Leu	Ser	Asp	Arg	His	Arg	Cys	Glu	Met	Gln	Ser	Pro
	195					200					205				
Ser	Ser	Cys	Leu	Val	Cys	Glu	Met	Ser	Ser	Leu	Phe	Gln	Glu	Phe	Gly
	210					215					220				
Arg	Val	Gly	Arg	Pro	Gly	Asn	Ser	Gly	Pro	Val	Pro	Ala	Gly	Val	Pro
225					230					235					240
Ser	Ile	Val	Ser	Pro	Glu										
				245											

<210> 141  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 141  
 Val Ala Pro Pro Gly Cys Ser His Leu Gly Ser Phe Lys Val Asp Asn  
 1 5 10 15

Trp Lys Gln Asn Leu Arg Ala Ile  
 20

<210> 142  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 142  
 Thr Ala Glu Ala Arg Lys Arg Lys Ala Lys Ser Cys Ile Cys His Val  
           1                  5                  10                  15

Cys Gly Val His Leu Asn Arg  
                   20

<210> 143  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 143  
 Phe Thr Lys Lys His Ile His Glu His Ala Lys Ala Lys Arg His Asn  
           1                  5                  10                  15

Leu Ala Ile Asp Leu Met Tyr  
                   20

<210> 144  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 144  
 Tyr Asp Lys Asp Met Glu Ile Ile Ala Lys Glu Glu Gln Arg Lys Ala  
           1                  5                  10                  15

Trp Lys Met Gln Gly  
                   20

<210> 145  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Glu Leu Leu Lys His Asn Pro Lys Arg Arg Lys Ile Thr Ser Asn Cys  
           1                  5                  10                  15

Thr Ile Gly Leu Arg Gly Leu Ile Asn Leu Gly Asn  
                   20                  25

<210> 146  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Gly Asn Thr Cys Phe Met Asn Cys Ile Val Gln Ala Leu Thr His Thr  
           1                  5                  10                  15

Pro Leu Leu Arg Asp Phe Phe Leu Ser Asp  
                   20                  25

<210> 147  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 147  
 Glu Phe Gly Arg Val Gly Arg Pro Gly Asn Ser Gly Pro Val Pro Ala  
 1 5 10 15  
 Gly Val Pro Ser  
 20

<210> 148  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 Asn Ser Glu Asp Ile Ser Gln Thr Arg Gln Glu Leu Gly Leu Cys Ile  
 1 5 10 15  
 Ser Gln Arg Cys Leu Ser Asp Arg Lys Lys Ser Arg Arg Ser Gly Val  
 20 25 30  
 Trp Val Arg Ala Cys Thr Met Gln Phe Met Lys His Val Phe Pro Arg  
 35 40 45  
 Leu Ile Ser Pro Arg Arg Pro Met Val Gln Phe Glu Val Ile Phe Leu  
 50 55 60  
 Leu Phe Gly Leu Cys Phe Ser Ser Ser Ser Ser Arg Leu Val Gly Ser  
 65 70 75 80  
 Gln Val Glu Asn Phe Ser Pro Thr Pro Cys Ile Phe Gln Ala Phe Arg  
 85 90 95  
 Cys Ser Ser Leu Ala Ile Ile Ser Met Ser Leu Ser  
 100 105

<210> 149  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 149  
 Ala Phe Pro Trp Pro Thr Ser  
 1 5

<210> 150  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 150  
 Glu Ser Asn Phe Phe Tyr Pro Tyr Asp Ser Gln Leu Ala Leu Leu Ser  
 1 5 10 15

Ser Val Thr Cys Ser Ala Ser  
20

<210> 151  
<211> 83  
<212> PRT  
<213> Homo sapiens

<400> 151  
Lys Leu Lys Met Phe Ala Phe Tyr Val Gln Val Leu Asn Gln Ser Lys  
1 5 10 15  
Ser Ile Phe Val Tyr Ser Arg Asn Leu Ile Phe Phe Ile His Met Ile  
20 25 30  
Val Ser Trp Pro Ser Phe Leu Gln Leu Pro Ala Val His Gln Cys His  
35 40 45  
Gln Ser Ser Val His Ile Cys Gly Val Ser Gly Leu Phe Pro Ser Ser  
50 55 60  
Asn Tyr Gln Cys Leu Ser Leu Cys Gln Asn His Thr Val Leu Ile Ile  
65 70 75 80  
Thr Thr Leu

<210> 152  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 152  
Ser Ile Leu Asn Val Ile Pro Asn Leu Ser Lys Gln Ser Phe Glu Glu  
1 5 10 15  
Phe Asp Arg Leu Ile Leu Lys Tyr Met Gln Lys Ser Lys Ser Lys Arg  
20 25 30  
Ile Ala Lys Ile Leu Leu Ser Asn Lys Lys Thr Cys Pro Thr Lys Tyr  
35 40 45

<210> 153  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 153  
Leu Pro Gln Ile Leu Arg Trp Leu Lys Tyr His Gln Ser Val Trp Gly  
1 5 10 15  
Lys Gln Thr Pro Val Thr Leu His Tyr Leu Thr Leu Asp Leu Ile Gln  
20 25 30

Glu Phe Thr Pro  
35

<210> 154  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 154  
Ile Phe Val Tyr Ser Arg Asn Leu Ile Phe Phe Ile His Met Ile Val  
1 5 10 15

Ser Trp Pro Ser Phe Leu Gln Leu Pro Ala Val His Gln Cys His Gln  
20 25 30

Ser

<210> 155  
<211> 184  
<212> PRT  
<213> Homo sapiens

<400> 155  
Pro Thr Gly Asn Asp Leu Val Tyr Val Phe Pro Cys Leu Leu Ser Val  
1 5 10 15

Phe Ser Arg Met Glu Glu Pro Ser Val Phe Cys Leu Phe Phe Pro Leu  
20 25 30

Ser Ile Leu Ile Ser Ser Ala Ser Arg Thr Phe Pro Gly Thr Gln Gln  
35 40 45

Val Phe Ser Ile Val His Gly Val Thr Asp Val Ser Ala Lys Lys Val  
50 55 60

Gln Ser Gln Gly Arg Met Thr Ser Thr Gly Leu Asp Phe Asn Leu Leu  
65 70 75 80

Pro Ala Trp Phe Pro Ser Pro Thr Ser Leu Gln Pro Thr Glu Asp Leu  
85 90 95

Phe Gln Thr Gly Ser Leu Ser Arg Ser Phe Phe Cys Ser Lys Ala Phe  
100 105 110

Ser Ser Ser Pro Leu Ser Pro Gly Gly Ser Pro Asn Ala Leu Thr Ser  
115 120 125

Val Lys Glu His Leu Val Ser Pro Ala Phe Leu Ala Ser His Ser Cys  
130 135 140

Thr Ala Glu Ser Phe Pro Arg Val Asp Val Ile His Ala Val Pro Ile  
145 150 155 160

Ala Trp Ile Pro Ala Pro Leu His Pro Ile Gln Leu Ile Asn Ser Trp  
165 170 175

Phe Phe Phe Phe Phe Phe Phe Phe

180

<210> 156  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 156  
Asp Leu Val Tyr Val Phe Pro Cys Leu Leu Ser Val Phe Ser Arg Met  
1 5 10 15  
  
Glu Glu Pro Ser Val Phe Cys Leu  
20

<210> 157  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 157  
Ile Ser Ser Ala Ser Arg Thr Phe Pro Gly Thr Gln Gln Val Phe Ser  
1 5 10 15  
  
Ile Val His Gly Val Thr Asp Val  
20

<210> 158  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 158  
Phe Asn Leu Leu Pro Ala Trp Phe Pro Ser Pro Thr Ser Leu Gln Pro  
1 5 10 15  
  
Thr Glu Asp Leu  
20

<210> 159  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 159  
Phe Cys Ser Lys Ala Phe Ser Ser Ser Pro Leu Ser Pro Gly Gly Ser  
1 5 10 15  
  
Pro Asn Ala Leu Thr Ser Val Lys Glu  
20 25

<210> 160  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 160  
 Thr Ala Glu Ser Phe Pro Arg Val Asp Val Ile His Ala Val Pro Ile  
           1                          5                          10                          15

Ala Trp Ile Pro Ala Pro Leu  
                           20

<210> 161  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 161  
 Phe Ser Phe Leu Lys Pro Leu Cys Ala Pro Arg Ala Pro Trp Leu Trp  
           1                          5                          10                          15

Leu Pro Pro Ser Ser Lys Ser Arg Val His Val Gly Pro Gly Asp Phe  
                           20                          25                          30

Arg Ser

<210> 162  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC FEATURE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 162  
 Val Cys Gly Thr Gly Gly Leu Glu Pro Asn Leu Ala Trp Val Arg Val  
           1                          5                          10                          15

Asp Asn Gly Ser Phe Pro Ser Ser Ser Pro Ser Val Pro Leu Glu His  
                           20                          25                          30

Pro Gly Cys Gly Cys Leu Leu His Pro Arg Ala Glu Ser Met Leu Gly  
                           35                          40                          45

Gln Glu Thr Ser Asp Pro Cys Pro Gly Ala Ala Ser Gly Phe Val Phe  
           50                          55                          60

Pro Gln Trp Ala Gly Leu Gly Leu Leu Val His Leu Tyr Pro Ser Leu  
           65                          70                          75                          80

Ser Tyr Ala Ala Leu Ala Cys Cys Val Ser Gly Leu Tyr Ser Leu Pro  
                           85                          90                          95

Phe Thr Gln Ala Leu Gly Asn Gln Pro Ser Phe Xaa Gln Glu Arg Gln  
           100                          105                          110

Arg Arg Ser Met Pro Leu Leu Trp Ala Ser  
           115                          120

<210> 163  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 163  
 His Ala Gly Arg Lys Thr Val Lys  
 1 5

<210> 164  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 164  
 Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met Val  
 1 5 10 15  
 Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu Glu  
 20 25 30  
 Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp Leu  
 35 40 45  
 Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln  
 50 55 60

<210> 165  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Pro Met Glu Arg Lys Ala Leu Glu Met Val Glu Lys Cys Leu Asp Lys  
 1 5 10 15  
 Tyr Phe Gln

<210> 166  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp  
 1 5 10 15  
 Leu Glu Leu Leu Met Arg  
 20

<210> 167  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 167

Ser Phe Pro Ser Ser Ser Pro Ser Val Pro Leu Glu His Pro Gly Cys  
1 5 10 15

Gly Cys Leu Leu His Pro Arg Ala Glu Ser Met Leu Gly Gln Glu  
20 25 30

<210> 168

<211> 27

<212> PRT

<213> Homo sapiens

<400> 168

Tyr Pro Ser Leu Ser Tyr Ala Ala Leu Ala Cys Cys Val Ser Gly Leu  
1 5 10 15

Tyr Ser Leu Pro Phe Thr Gln Ala Leu Gly Asn  
20 25

<210> 169

<211> 353

<212> PRT

<213> Homo sapiens

<400> 169

Phe Ser Phe Leu Lys Pro Leu Cys Ala Pro Arg Ala Pro Trp Leu Trp  
1 5 10 15

Leu Pro Pro Ser Ser Lys Ser Arg Val His Val Gly Pro Gly Asp Phe  
20 25 30

Arg Ser Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly  
35 40 45

Arg Thr Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser  
50 55 60

Leu Gly Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly  
65 70 75 80

Pro Gly Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn  
85 90 95

Ala Phe Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu  
100 105 110

Asp Glu Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys  
115 120 125

Met Glu Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala  
130 135 140

Gln Gly Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr  
145 150 155 160

Glu Ala Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala  
165 170 175

Ser Ser Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser  
 180 185 190  
 Ala Ser Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe  
 195 200 205  
 Leu Glu Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro  
 210 215 220  
 Ala Glu Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly  
 225 230 235 240  
 Pro Arg Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val  
 245 250 255  
 Lys Leu Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu  
 260 265 270  
 Glu Met Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp  
 275 280 285  
 Asp Leu Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro  
 290 295 300  
 Glu Asp Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln  
 305 310 315 320  
 Val Ser Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg  
 325 330 335  
 Gln Leu Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala  
 340 345 350

Gln

<210> 170

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 170

Ala Pro Gly Gly Val Asn Ser Glu Gly Arg Gly Gln His Leu Pro Pro  
 1 5 10 15

Pro Xaa Leu Ala Val Cys Leu Lys Leu His Leu  
 20 25

<210> 171

<211> 198

<212> PRT

<213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 171  
 Ala Pro Gly Gly Val Asn Ser Glu Gly Arg Gly Gln His Leu Pro Pro  
   1                  5                  10                  15  
  
 Pro Xaa Leu Ala Val Cys Leu Lys Leu His Leu Met Ser Leu Pro Ile  
           20                  25                  30  
  
 Pro Trp Leu Ser Leu Pro Pro Cys Pro Ile Leu Gly Gln Pro Ala Gly  
       35                  40                  45  
  
 Leu Leu Leu Trp Leu Phe Arg Pro Phe Ser Gln Cys Cys Gln Cys Pro  
   50                  55                  60  
  
 Trp Glu Gly Arg Ala Ser Leu Arg His Pro Asn Gly Pro Ser Gly Cys  
   65                  70                  75                  80  
  
 Arg Glu Ala Glu Ala Trp Pro Gln Arg Ser Leu Leu Arg Gln Gln Leu  
           85                  90                  95  
  
 Gln Gln Ala His Pro Leu Pro Thr Leu Pro Thr Pro Glu Arg Leu Pro  
           100                  105                  110  
  
 Glu Gln Met Leu Phe Pro Ser Ser Ser Ser Lys Pro Phe Ser Leu Leu  
       115                  120                  125  
  
 Ser Leu Thr Ile Trp Ala Arg Leu Val Gly Arg Leu Thr Asn Arg Ile  
   130                  135                  140  
  
 Cys Pro Val Pro Pro Gly Ser Val Ala Ser Ser Met Ser Leu Gln Ala  
   145                  150                  155                  160  
  
 Gly Arg Cys Gly Asn Pro Val Val Leu Pro Gln Pro Met Pro Pro Gly  
           165                  170                  175  
  
 Leu Leu Cys Met Asn Glu Cys Ser Leu Val Pro Gly Leu Gly Arg Gly  
       180                  185                  190  
  
 Gln Val Asn Ser Arg Val  
       195

<210> 172  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 172  
 Asn Ser Ala Glu Pro Ala Trp Val Pro Val Cys Ala Arg Gly Gly Gly  
   1                  5                  10                  15  
  
 Ala Gly Cys Gly Arg Arg Arg Gly Arg Arg Phe Cys Ala Ala Gly Ala  
       20                  25                  30  
  
 Val Pro Ala Ala Glu Arg Gly Gly Glu Asn Gly Ser  
       35                  40

<210> 173  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Ser Leu Val Pro Ala Leu Lys Glu Val Val Val Leu Trp Arg Arg Gln  
 1 5 10 15  
 Met Val Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn  
 20 25 30  
 Ser Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu  
 35 40 45  
 Pro Val Tyr Leu Leu Ile Ala Ile Val Ile Gly Tyr Val Leu Leu Phe  
 50 55 60  
 Gly Ile Asn Met Met Ser Thr Ser Pro Leu Asp Ser Ile His Thr Ile  
 65 70 75 80  
 Thr Asp Asn Tyr Ala Lys Asn Gln Gln Gln Lys Lys Tyr Gln Glu Glu  
 85 90 95  
 Ala Ile Pro Ala Leu Arg Asp Ile Ser Ile Ser Glu Val Asn Gln Met  
 100 105 110  
 Phe Phe Leu Ala Ala Lys Glu Leu Tyr Thr Lys Asn  
 115 120

<210> 174  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 174  
 Met Val Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn  
 1 5 10 15  
 Ser Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp  
 20 25

<210> 175  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile Ala Ile Val Ile  
 1 5 10 15  
 Gly Tyr Val Leu Leu Phe Gly Ile Asn  
 20 25

<210> 176

<211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Gln Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg Asp  
   1                  5                  10                  15  
 Ile Ser Ile Ser Glu Val  
                   20

<210> 177  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 177  
 Asn Ser Ala Glu Pro Ala Trp Val Pro Val Cys Ala Arg Gly Gly Gly  
   1                  5                  10                  15  
 Ala Gly Cys Gly Arg Arg Arg Gly Arg Arg Phe Cys Ala Ala Gly Ala  
                   20                  25                  30  
 Val Pro Ala Ala Glu Arg Gly Gly Glu Asn Gly Ser Met Val Ser Arg  
                   35                  40                  45  
 Ser Thr Ser Leu Thr Leu Ile Val Phe Leu Phe His Arg Leu Ser Lys  
                   50                  55                  60  
 Ala Pro Gly Lys Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg  
   65                  70                  75                  80  
 Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Lys  
                   85                  90                  95  
 Asn Leu Lys Gly Ser Arg Val Cys  
                   100

<210> 178  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 178  
 Leu Ser Pro Arg Leu Phe Asp Ala Gly Ile Leu Leu Trp Gly Ala Ser  
   1                  5                  10                  15  
 Val Asn Val Thr Ile Trp Glu Val Arg Xaa Ala Gln Ser Ser Ala Ser  
                   20                  25                  30

<210> 179  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> MISC\_FEATURE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> MISC\_FEATURE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 179  
 Leu Ser Pro Arg Leu Phe Asp Ala Gly Ile Leu Leu Trp Gly Ala Ser  
   1                  5                  10                  15  
 Val Asn Val Thr Ile Trp Glu Val Arg Xaa Ala Gln Ser Ser Ala Ser  
                   20                  25                  30  
 Met Leu Pro Ser Ala Trp Gly Pro Leu Gln Val Ala Ser Phe Phe Leu  
           35                  40                  45  
 Leu Ser Phe Xaa Phe Cys Phe Leu Ser Ser Ser Pro His Leu Gly Arg  
   50                  55                  60  
 Gln Glu Thr His Xaa Val Val Leu Glu Asp Asp Glu Gly Ala Pro Cys  
   65                  70                  75                  80  
 Pro Ala Glu Asp Glu Leu Ala Leu Gln Asp Asn Gly Phe Leu Ser Lys  
                   85                  90                  95  
 Asn Glu Val Leu Arg Thr Arg Cys Leu Gly Ser Arg Ser Gly Ser Ala  
           100                  105                  110  
 Ser Ala Thr Pro Pro Thr Thr Ser Gly Thr Ala Arg Ala Ala Arg Pro  
   115                  120                  125  
 Pro Ser Gln Cys  
   130

<210> 180  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 180  
 Asn Leu Thr Ser Asp Pro Arg Pro Leu Ala Leu Pro Pro Pro Cys Gly  
   1                  5                  10                  15  
 Asp Phe Ile Lys Val Thr Ser Phe Ser Pro Gly Leu Glu Thr His Thr

20

25

30

<210> 181  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 181  
 Glu Gln Gln Arg Leu Arg Asp Arg Glu Thr Gln Thr Gly Xaa Asp Ser  
     1                    5                    10                    15  
 Arg Ala Lys Thr Gln Arg Gly Glu Asp Gly Glu Ser Glu Arg Gly Arg  
                     20                    25                    30  
 Trp Arg Leu Arg Glu Gly Glu Asp Gly Asp Ser Glu Arg Glu Glu Asp  
                     35                    40                    45  
 Gly Asp Ser Glu Arg Trp Arg Leu Arg Ser Met Glu Ser Gln Arg Gly  
                     50                    55                    60  
 Glu Asp Gly His Ser Gly Gly Trp Arg Val Arg Arg Met Glu Thr His  
     65                    70                    75                    80  
 Arg Lys Gly Arg Met Glu Ser Gln Glu Arg Leu Glu Thr Gly Glu Gly  
                     85                    90                    95  
 Ile Glu Thr Gln Arg Gly Glu Asp Gly Asp Ser Glu Gly Gly Arg Trp  
                     100                    105                    110  
 Arg Leu Lys Glu Asp Gly Asn Pro Gly Glu Arg Arg Thr Glu Met Arg  
                     115                    120                    125  
 Gln Arg Leu Gly Glu Ala Gly  
     130                    135

<210> 182  
 <211> 220  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 182  
 Gly His Gly Val Ala Gly Xaa Cys Leu Pro Gln Pro Leu Leu Pro Pro  
     1                    5                    10                    15  
 Ser Pro Pro Asp Tyr Asp Glu Arg Ser His Leu His Asp Thr Phe Thr

20					25					30					
Gln	Met	Thr	His	Ala	Leu	Gln	Glu	Leu	Ala	Ala	Ala	Gln	Gly	Ser	Phe
	35					40						45			
Glu	Val	Ala	Phe	Pro	Asp	Ala	Ala	Glu	Lys	Met	Lys	Lys	Val	Phe	Thr
	50					55					60				
Gln	Leu	Lys	Glu	Ala	Gln	Ala	Cys	Ile	Pro	Pro	Cys	Glu	Gly	Leu	Gln
	65					70					75				80
Glu	Phe	Ala	Arg	Arg	Phe	Leu	Cys	Ser	Gly	Cys	Tyr	Ser	Arg	Val	Cys
			85						90					95	
Asp	Leu	Pro	Leu	Asp	Cys	Pro	Val	Gln	Asp	Val	Thr	Val	Thr	Arg	Gly
			100					105					110		
Asp	Gln	Ala	Met	Phe	Ser	Cys	Ile	Val	Asn	Phe	Gln	Leu	Pro	Lys	Glu
	115						120					125			
Glu	Ile	Thr	Tyr	Ser	Trp	Lys	Phe	Ala	Gly	Gly	Gly	Leu	Arg	Thr	Gln
	130					135					140				
Asp	Leu	Ser	Tyr	Phe	Arg	Asp	Met	Pro	Arg	Ala	Glu	Gly	Tyr	Leu	Ala
	145					150					155				160
Arg	Ile	Arg	Pro	Ala	Gln	Leu	Thr	His	Arg	Gly	Thr	Phe	Ser	Cys	Val
				165					170					175	
Ile	Lys	Gln	Asp	Gln	Arg	Pro	Leu	Ala	Arg	Leu	Tyr	Phe	Phe	Leu	Asn
			180					185					190		
Val	Thr	Gly	Arg	Pro	Arg	Gly	Arg	Arg	Gln	Ser	Cys	Arg	Pro	Arg	Ser
		195					200					205			
Gly	Lys	Cys	Cys	Ala	Gly	Arg	Arg	Gly	Met	Pro	Ser				
	210					215					220				

<210> 183

<211> 41

<212> PRT

<213> Homo sapiens

<400> 183

Gly	Asp	His	Pro	His	Phe	Ile	Ser	Val	Leu	Gly	Lys	Val	Gln	Arg	Glu
	1			5					10					15	

Gly	Arg	Arg	Gly	Pro	Glu	Gly	Gln	Ala	Glu	Gly	Gln	Thr	Glu	Arg	Asn
			20					25					30		

Ser	Gln	Arg	Arg	Lys	Ala	Gln	Arg	Pro
		35				40		

<210> 184

<211> 129

<212> PRT

<213> Homo sapiens

<400> 184

Asn Leu Thr Ser Asp Pro Arg Pro Leu Ala Leu Pro Pro Pro Cys Gly  
1 5 10 15

Asp Phe Ile Lys Val Thr Ser Phe Ser Pro Gly Leu Glu Thr His Thr  
20 25 30

Met Ala Leu Leu Ala Leu Ala Ser Ala Val Pro Ser Ala Leu Leu Ala  
35 40 45

Leu Ala Val Phe Arg Val Pro Ala Trp Ala Cys Leu Leu Cys Phe Thr  
50 55 60

Thr Tyr Ser Glu Arg Leu Arg Ile Cys Gln Met Phe Val Gly Met Arg  
65 70 75 80

Ser Pro Ser Leu Lys Ser Val Arg Arg Pro Ser Arg Pro Pro Ser Arg  
85 90 95

Ala Ser Leu Thr Pro Lys Ser Val Arg Arg Pro Ser Thr Leu His Gln  
100 105 110

Cys Pro Gly Glu Gly Ala Glu Gly Gly Gln Glu Arg Pro Arg Gly Ser  
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Gly

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Asn Phe Ser Asp Val His Thr Tyr Leu Ser Ser Ile Ala Leu Leu Cys  
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Phe Cys Leu Ser Gly Val Leu Cys Cys Ile Cys Asn Asn Ser Val Phe  
35 40 45

His Ile Gln Gln Tyr Ile Leu Ile Ile Ile Thr Phe Pro Leu Val Val  
50 55 60

Ile

65